

Abstract of the Disclosure

Positioning of a mobile signal transmitter. A respective distance between the transmitter and each of a plurality of sensors is determined based on a direct sequence spread spectrum signal. A transmission delay of the signal is estimated with high accuracy by, in each sensor, cross-correlating an over-sampled representation of the signal with an appropriate local spreading sequence, which contains poly-phased symbol values being different from a set of symbols in the direct sequence used to spread the transmitted signal. The local spreading sequence has a nominal chip period, which is equivalent to the chip period of the over-sampled representation of the signal.